

(12) UK Patent Application (19) GB (11) 2 375 476 (13) A

(43) Date of A Publication 20.11.2002

(21) Application No 0112053.4

(22) Date of Filing 17.05.2001

(71) Applicant(s)
J N W Colledge
15 Portal Close, West Norwood, LONDON,
SE27 0BN, United Kingdom

(72) Inventor(s)
J N W Colledge

(74) Agent and/or Address for Service
J N W Colledge
15 Portal Close, West Norwood, LONDON,
SE27 0BN, United Kingdom

(51) INT CL⁷
A45F 3/04

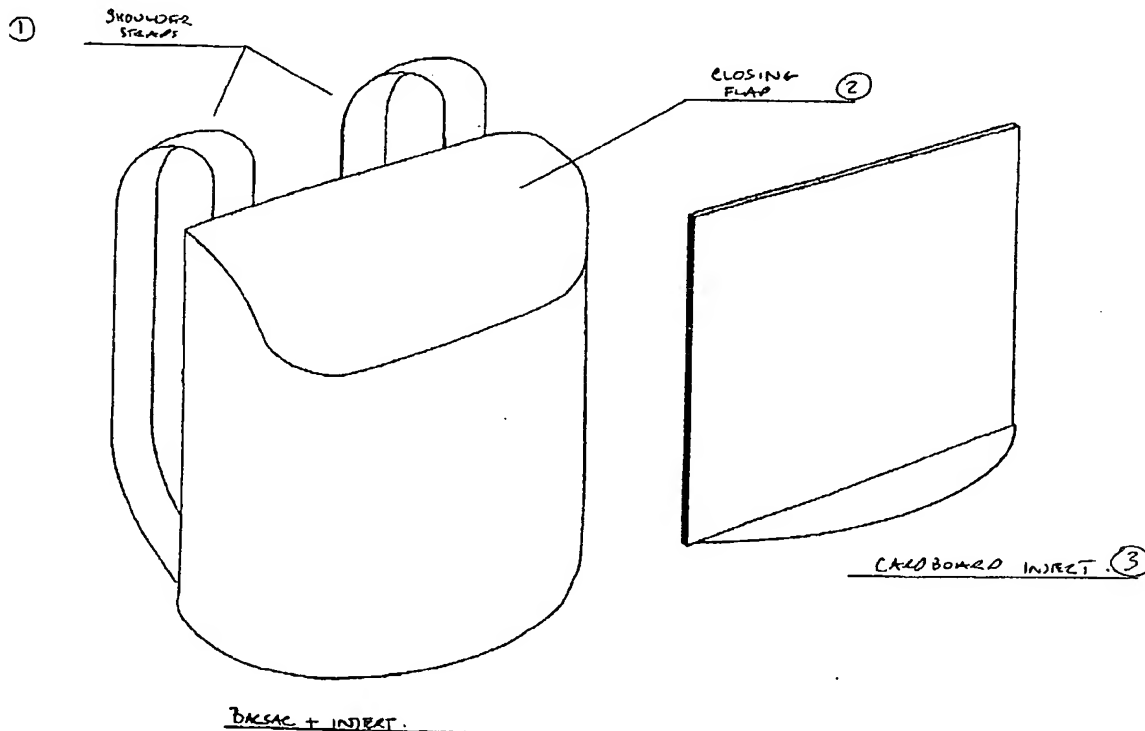
(52) UK CL (Edition T)
A4G G7

(56) Documents Cited
EP 0260229 A2 WO 1987/001096 A1
FR 002762491 A1 US 6213643 B
US 5738263 A

(58) Field of Search
UK CL (Edition S) A4G
INT CL⁷ A45F 3/04
ONLINE - EPODOC, WPI, PAJ

(54) Abstract Title
Recyclable plastic backpack

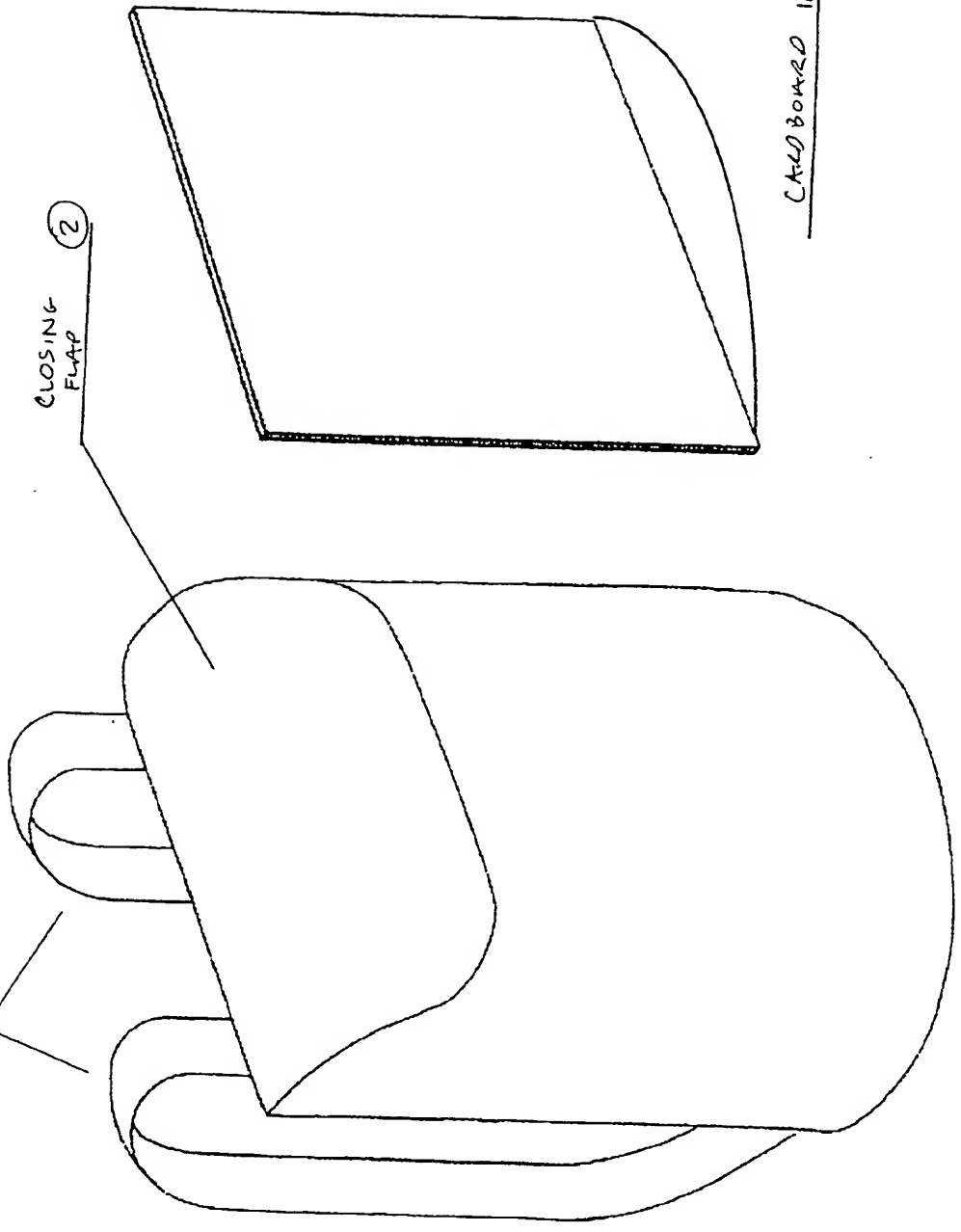
(57) A recyclable backpack is made from recyclable plastic material, and is formed with two shoulder straps 1 in order that a user's hands may be free. The straps 1 may be folded over several times to give them more strength. The bag is closed using flap 2, which may be sealed using toggles or a sticky strip. A cardboard insert 3 may be used to protect the user's back from sharp contents. The insert 3 is formed with a crescent on its lower edge to avoid puncturing the bag.



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①
SHOULDER
STRAPS

②
CLOSING
FLAP



CARD BOARD INSERT. ③

BAGSAC + INSERT.

Bacsac

Title: Double strapped limited use, or disposable backpack with two shoulder straps, made from polythene. With cardboard insert.

A standard shoppers polythene bag has the disadvantage of requiring one's hands to be free, to carry it. This invention will free the users hands for other tasks, whilst still offering an opportunity to carry light loads on ones back. It has the added advantage of offering a cardboard insert to protect the users back from any of the bag's sharp contents.

One of the most important features of this bag is that it will be made from recyclable plastic, so as to lower its impact on the environment. The bag will be reusable; it will pack very easily into a small space, but will still maintain its integrity when unfolded.

The cardboard insert an optional choice for the user, for added comfort, will also be recyclable.

The accompanying drawing gives more detail, however some specific points should be noted.

Whilst, the bag is made from lightweight polythene, it will be made more durable, by its design and manufacture. The basic plastic sheet, which the bag is created from, is cut in such a way to allow multiple folding over of the shoulder straps. This will give the points under most pressure, more strength.

The cut of this basic sheet, will also allow for a closing flap, to avoid loss of contents.

It is envisaged that this closing flap, will be sealed by toggles, or a reusable sticky strip

The cardboard insert will be shaped, with a crescent on its lower edge, to avoid puncturing the bag.

See Diagram No.1

- 1. Shoulder Straps
- 2. Closing Flap
- 3. Cardboard Insert

Claims

1. This Bacsac will enable the user to carry a reasonably heavy load, in complete comfort, whilst still having both hands free. Unlike standard backpacks its simple and cheap biodegradable design will make it environmentally friendly and a cost-effective option, for limited reuse, or single use shopping carrier.
2. The Bacsac will have multiple thickness shoulder straps, achieved through folding over of the construction material.
3. The Bacsac will have a closing flap, which will be sealed with toggles or a sticky strip.
4. The Bacsac can be made from lightweight, or more durable plastics, dependant upon how many uses the supplier envisages the item will have.
5. There is also a shaped cardboard insert, which will protect the users spine, from any sharp objects contained within the Bacsac. The insert will be shaped without sharp corners, to avoid its breaking through the bag itself.



INVESTOR IN PEOPLE

Application No: GB 0112053.4
Claims searched: 1-5

Examiner: Fiona Warner
Date of search: 18 October 2001

Patents Act 1977 Search Report under Section 17

Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK Cl (Ed.S): A4G

Int Cl (Ed.7): A45F (3/04)

Other: Online (EPODOC, WPI, PAJ)

Documents considered to be relevant:

| Category | Identity of document and relevant passage | Relevant to claims |
|----------|--------------------------------------------------|--------------------|
| X, Y | EP 0260229 A2 (DORICA) - whole document relevant | X=1-4 Y=5 |
| X, Y | WO 87/01096 A1 (TUFTE) - whole document relevant | X=1-4 Y=5 |
| Y | US 6213643 B1 (LIN) - see especially fig. 8 | 5 |
| X, Y | US 5738263 A (LEWIS) - whole document relevant | X=1-4 Y=5 |
| X, Y | FR 2762491 A1 (COLUMBIA) | X=1-4 Y=5 |

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|---|-----------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------|
| X | Document indicating lack of novelty or inventive step | A | Document indicating technological background and/or state of the art. |
| Y | Document indicating lack of inventive step if combined with one or more other documents of same category. | P | Document published on or after the declared priority date but before the filing date of this invention. |
| & | Member of the same patent family | E | Patent document published on or after, but with priority date earlier than, the filing date of this application. |